

# SIPHO SHORTY MAHLANGU

Cell Number: 078 233 0360/ 079 960 9900

Email Address: [siphohlangus@yahoo.com](mailto:siphohlangus@yahoo.com)

## PERSONAL DETAILS

---

Name : Sipho Shorty  
Surname : Mahlangu  
Gender : Male  
Date of Birth : 21 July 1990  
Identity Number : 900721 5355 08 8  
Nationality : South Africa  
Marital Status : Single

LANGUAGES	SPEAK	READ	WRITE
ENGLISH	Good	Good	Good
NDEBELE	Excellent	Excellent	Excellent
ZULU	Good	Fair	Good
TSWANA	Good	Fair	Fair

Home Address : Stand no: 0396  
Siyabuswa Section A  
Siyabuswa  
0472  
Health : Excellent  
Criminal Record : None

## EDUCATION

---

Name of qualification : B-Tech in Electrical engineering  
Institution : Tshwane University of Technology  
Year Obtained : 2019  
Name of qualification : National Diploma in Electrical engineering  
Institution : Tshwane University of Technology  
Year Obtained : 2014

## WORK HISTORY

---

Employer : Semane Engineering Solution  
Designation : Junior System Integrator  
Start date – End date : November 2019 – March 2020  
Client : Anglo American Thermal Coal  
Site: : Zibulo Colliery (underground mine)

Project : Controls of coal conveyor belt

### Responsibilities:

Installing cable wrack, installing pigtailed, installing pull-key switch, the yellow lines, misalignment belt switch, belt rip switch, limit switch, load cell, speed switch and TMP's. Wiring the belt drive motors (3 phase) from the MCC panel, Wiring the winch motor (1 phase) from the winch panel, doing integration between winch panel and belt drive PLC panel. Commissioning and testing of the conveyor belt. Preparing handover file. Assist the project manager with project execution and site representative

Employer : Enviroware Construction  
Designation : C&I Engineer  
Start date – End date : April 2014 – October 2019  
Client : Eskom  
Site: : Kusile and Medupi power stations

Project : Design, installation and controls of HVAC system

### Responsibilities:

#### Engineering and drawings:

Drawing (Designing LV & MV HVAC Network Control Panel, PLC and MCC schematic drawings using EPLAN Electric P8 – the schematic drawings include supplying, monitoring and controlling of electrical equipment such as fan/ motor, heater, humidifier, damper actuator, airflow switch, etc). Preparing the cable schedule, creating IO/UO points list, creating control cause and effects matrix (principle of operation for the panel under the normal running condition, fire condition, smoke exhaust), ordering and tracking deliveries, bill of material, ensuring electrical schematic drawings match SICO, mechanical and P&ID drawings, writing job progress report daily, electrical calculations, preparing data book for factory and site acceptance test, assist the head of electrical engineer with project execution, doing document control.

#### Workshop activities:

Manufacturing panels using (Distech Controls, Siemens and Schneider), checking chassis layout against the drawing, doing QC/QA of the panel based on SANS and client's specification, point to point check, writing and loading a test programme to HVAC programmable controller using windows Lon-Maker, commissioning the HVAC system, pulling all the points to the web-server (EC-Bos), setting up the EC-Bos for Bcp-bacnet server, testing and making sure the panel works according to client's requirements (correct functionality). Leading the factory acceptance test (FAT) inspection. Supervising the wiremen, responsible for health and safety (OHS). I have been involved in safety clearance inspection.

Employer : Merlin Engineering cc

Designation : Trainee C&I Engineer  
Start date – End date : July 2013 – December 2013

Projects: BMW

Responsibilities:

Manufacturing LV & MV HVAC MCC's: selecting the correct equipment to be used, chassis layout and assemble, control panel wiring, testing and fault findings, copper work (bending, punching), rectifications, field wiring from the panel to the motor/ fan, heater, airflow switch, etc. Doing QC based on SANS and client's specification and preparing data book for factory acceptance

## **VALUES, SKILLS AND ATTITUDE**

---

Excellent attitude towards work and team, ability to take initiative to improve the work environment, dynamic, energetic and committed individual, leadership skills and display potential to develop into a leadership role, analytical and problem solving skills, ability to deliver tasks in a timely manner against deadlines, attention to detail and ability to take ownership and responsibility. Ability to work in a fast-pace, changing environment, confident self-starter who has demonstrated drive, arrive punctually for work, work without supervision, work in a team as well as individually, handle work pressure, good computer skills (MS power-point, MS word, MS excel), willingness to learn, etc.

## **INTERESTS AND HOBBIES**

---

Listening to music, I enjoy travelling, meeting new people, learning new things, playing soccer and volley ball.

## **REFERENCES**

---

Name	:	Klasie Badenhorst
Designation	:	HOD of EC&I at Semane Engineering
Contacts	:	082 377 6663
Name	:	Abelash Chhana
Designation	:	Director at Enviroware construction
Contacts	:	011 315 1332
Name	:	Peter Fieldhouse
Designation	:	CEO/ Director at Merlin engineering
Contacts	:	011 315 3014



# Tshwane University of Technology

*We empower people*

SOUTH AFRICAN POLICE SERVICE  
COMMUNITY SERVICE CENTRE  
KWAGGAFONTEIN  
2020-05-04  
KWAGGAFONTEIN  
SOUTH AFRICAN POLICE SERVICE

# BACCALAUREUS TECHNOLOGIAE

ENGINEERING: ELECTRICAL

Awarded to

**SIPHO SHORTY MAHLANGU**

209237431

EK SERTIFISEER DAT DIE DOKUMENT 'N WARE AFDRUK (AFKOPIE) IS VAN DIE OORSPRONKLIKE DOKUMENT WAT AAN MY VIR WAARNEMING VOORGELE IS. EK SERTIFISEER VERDER DAT VOLGENS MY WAARNEMINGS DAAR NIE 'N WYSIGING OF VERANDAR OP DIE OORSPRONKLIKE DOKUMENT AANGEBRING IS.

I CERTIFY THAT THIS DOCUMENT IS A TRUE REPRODUCTION (COPY) OF THE ORIGINAL DOCUMENT WHICH WAS HANDED TO ME FOR AUTHENTICATION. I FURTHER CERTIFY THAT I HAVE MADE NO OBSERVATIONS AN AMENDMENT OR A CHANGE NOT MADE TO THE ORIGINAL DOCUMENT.

\_\_\_\_\_

HANDETEKENING / SIGNATURE

MAGS NOMMER / FORCE NUMBER: 733336-7 RANG / RANK: (S)

NAAM IN DRUKSKRIEF / NAME IN PRINT: Siphoshe Mhlangu

Having complied with the  
Requirements of the Act and Statute

2019-07-17

BT50715

Vice-Chancellor and Principal  
On behalf of Council and Senate

Registrar

